

CLAIMS

What is claimed is:

1. A method for updating keyboard controller basic input output system of a target computer by operating a remote computer connecting to the target computer and updating at least one of a boot block and a flash memory of the keyboard controller basic input output system, comprising steps of:

5 connecting serial port of the remote computer to serial port of the target computer with signal wires;

10 providing modes of “not to update”, “update the lock” and “update all” for user to select;

15 checking whether the mode is “not to update”, and ending if the mode is;

20 checking whether the mode is “update the lock”;

25 ending after updating flash memory of the target computer if the mode is “update the lock”;

30 ending after updating boot block and flash memory of the target computer if the mode is “to update all”.

2. A method for updating keyboard controller basic input output system of a target computer through serial port according to claim 1 wherein the step of providing modes is achieved by providing an updating control circuit and a lock control circuit for user to select.

3. A method for updating keyboard controller basic input output system of a target computer through serial port according to claim 2 wherein the updating control circuit comprises a receiving controller for controlling signal receiving; and a transmission controller for controlling signal transmission.

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4. A method for updating keyboard controller basic input output system of a target computer through serial port according to claim 3 wherein said receiving controller is a two for one multiplexer comprising:
 - a first receiving input port connecting to SRXD of the target computer;
 5. a second receiving input port connecting to 8051RX of the target computer; and
 - a receiving output port connecting to RXD of serial port of the target computer.
 5. A method for updating keyboard controller basic input output system of a target computer through serial port according to claim 4 wherein said transmission controller is a two for one multiplexer comprising:
 - 10 a first transmission input port connecting to STXD of the target computer;
 - a second transmission input port connecting to 8051TX of the target computer; and
 - a transmission output port connecting to TXD of serial port of the target computer.
 6. A method for updating keyboard controller basic input output system of a target computer through serial port according to claim 5 wherein said first receiving input port is connected to said receiving output port, and said first transmission input port is connected to said transmission output port if the mode is “not to update”; and
 - 15 said second receiving input port is connected to said receiving output port, and said second transmission input port is connected to said transmission output port when the mode is one of “update the lock” and “update all”.
 7. A method for updating keyboard controller basic input output system of a target computer through serial port according to claim 2 wherein said lock controller is a two for one multiplexer comprising:
 - 20 a first lock input port connecting to power voltage of the target computer;

a second lock input port connecting to ground; and

a lock output port connecting to FWP# of the target computer.

8. A method for updating keyboard controller basic input output system of a target computer through serial port according to claim 7 wherein said first lock input port is connected to said lock output port when the mode is one of “not to update” and “update the lock”; and

said second lock input port is connected to said lock output port when the mode is “update all”.

9. a device for updating keyboard controller basic input output system of a target computer by operating a remote computer connecting to the target computer and updating at least one of a boot block and a flash memory of the keyboard controller basic input output system, comprising:

signal wires for connecting serial port of the remote computer and serial port of the target computer;

a selection switch for providing modes of “not to update”, “update the lock” and “update all” for user to select;

an updating control circuit for controlling updating of said keyboard controller basic input output system by denying updating when the mode is set to “not to update”; and permitting updating when the mode is set to one of “update the lock” and “update all”;

and

a lock control circuit for controlling updating of said boot block by denying updating the boot block when the mode is set to one of “not to update” and “update the lock”; and permitting updating the boot block when the mode is set to one of and “update all”.

10. A device for updating keyboard controller basic input output system of a target computer through serial port according to claim 9 wherein the updating control

circuit comprises a receiving controller for controlling signal receiving; and a transmission controller for controlling signal transmission.

11. A device for updating keyboard controller basic input output system of a target computer through serial port according to claim 10 wherein said receiving controller is a two for one multiplexer comprising:

5 a first receiving input port connecting to SRXD of the target computer;

a second receiving input port connecting to 8051RX of the target computer; and

a receiving output port connecting to RXD of serial port of the target computer.

10 12. A device for updating keyboard controller basic input output system of a target computer through serial port according to claim 11 wherein said transmission controller is a two for one multiplexer comprising:

a first transmission input port connecting to STXD of the target computer;

a second transmission input port connecting to 8051TX of the target computer; and

a transmission output port connecting to TXD of serial port of the target computer.

15 13. A device for updating keyboard controller basic input output system of a target computer through serial port according to claim 12 wherein said first receiving input port is connected to said receiving output port, and said first transmission input port is connected to said transmission output port if the mode is "not to update"; and

20 said second receiving input port is connected to said receiving output port, and said second transmission input port is connected to said transmission output port when the mode is one of "update the lock" and "update all".

14. A device for updating keyboard controller basic input output system of a target computer through serial port according to claim 9 wherein said lock controller is a

- two for one multiplexer comprising:
- a first lock input port connecting to power voltage of the target computer;
 - a second lock input port connecting to ground; and
 - a lock output port connecting to FWP# of the target computer.
- 5 15. A device for updating keyboard controller basic input output system of a target computer through serial port according to claim 14 wherein said first lock input port is connected to said lock output port when the mode is one of “not to update” and “update the lock”; and
- 10 said second lock input port is connected to said lock output port when the mode is “update all”.